

Substitute for Form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)



Complete if Known

Application Number	10/562,599
Filing Date	December 22, 2005
First Named Inventor:	Benjamin Guy Davis
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	007765.P001

Sheet 1 of

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ^o
		Country Code ² Number ⁴ Kind Code ³ (if known)				
		EP 0 256 486 A1	02-24-1988	Seitetsu Kagaku Co. Ltd.		
		JP 61-205249	09-11-1986	Wako Pure Chem Ind. Ltd.		
		WO 94/00427	01-06-1994	Chaudhry		
		WO 00/01712	01-13-2000	Genencor International, Inc.		

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Signature

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. *Applicant's unique citation designation number (optional). **See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. *Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). *For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. *Applicant is to place a check mark here if English language translation is attached.

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Sheet	2	of	2		
NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No*	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T ²
		DAVIS, BENJAMIN G., et al. "Controlled Site-Selective Glycosylation of Proteins by a Combined Site-Directed Mutagenesis and Chemical Modification Approach," American Chemical Society, J. Org. Chem., 1998, pp. 9614-9615, 63.			
		DAVIS, BENJAMIN G., et al. "Glycomethanethiosulfonates: powerful reagents for protein glycosylation," Tetrahedron: Asymmetry, 2000, pp. 245-262, 11.			
		DAVIS, BENJAMIN G. "Mimicking Posttranslational Modifications of Proteins," Science, Jan. 2004, pp. 480-482, Vol. 303.			
		DWEK, RAYMOND A. "Glycobiology: Toward Understanding the Function of Sugars," Chem. Rev., 1996, pp. 683-720, 96.			
		FIELD, LAMAR, et al. "Biologically Oriented Organic Sulfur Chemistry," J. Org. Chem., 1971, pp. 309-313, Vol. 36, No. 2.			
		GAMBLIN, DAVID P., et al. "Glyco-SeS: Selenenylsulfide-Mediated Protein Glycoconjugation — A New Strategy in Post-Translational Modification," Angew. Chem. Int. Ed., 2004, pp. 828-833, Vol. 43, No. 7.			
		GAMBLIN, DAVID P., et al. "Glycosyl Phenylthiosulfonates (Glyco-PTS): novel reagents for glycoprotein synthesis," Org. Biomol. Chem., 2003, pp. 3642-3644, Vol. 1, No. 21.			
		JOHNSTON, BLAIR D., et al. "Synthesis of Thio-Linked Disaccharides by 1→2 Intramolecular Thioglycosyl Migration: Oxacarbenium versus Episulfonium Ion Intermediates," J. Org. Chem., 2000, pp. 4607-4617, Vol. 65, No. 15.			
		RAJCA, A., et al. "New Mixed Disulfides of L-Cysteine Derivatives and of Glutathione with Diethyldithiocarbamic Acid and 2-Mercaptoethanesulfonic Acid," Arzneimittelforschung/ Drug Research, 1990, pp. 282-286, 40, No. 3.			
		RAJCA, ANDRZEJ, et al. "Synthesis of Unsymmetrical Disulfides with Thiol-sulfonates Immobilised on a Polystyrene Support," Tetrahedron Letters, August 1990, pp. 6075-6076, 31, 42.			
		REICH, HANS J., et al. "Organoselenium Chemistry. Alkylation of Acid, Ester, Amide, and Ketone Enolates with Bromomethyl Benzyl Selenide and Sulfide: Preparation of Selenocysteine Derivatives," J. Org. Chem., 1986, pp. 2981-2988, Vol. 51, No. 15.			
		YAMADA, SHUNICHI, et al. "Syntheses of Thiamine Alkyl Disulfides," CAS XP002300619, 1954, pp. 963-966, 74 (Abstract).			

Examiner Signature	/Andrew D. Kosar/	Date Considered	04/12/2010
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